

# REPORT ON BOILERS.

No. 25438  
WED. DEC. 17. 1913  
THU. DEC. 24. 1914

Received at London Office  
 Date of writing Report 12<sup>th</sup> Dec 1913 When handed in at Local Office 13. 12. 1913 Port of Glasgow  
 Survey held at Pollackshaw, Glasgow Date, First Survey 7. 5. 13 Last Survey 12. 12. 1913  
 Book on the Marine Boilers for the m/s "PANGAN" (Number of Visits 7) Gross Tons }  
 Built at Glasgow By whom built Barclay Curle & Co Ltd When built 1909-3  
 Made at Glasgow By whom made Durmeister & Co When made 1914  
 Made at Pollackshaw, Glasgow By whom made A.W. Dalglisch (No 602-3) When made 1913  
 Indicated Horse Power \_\_\_\_\_ Owners \_\_\_\_\_ Port belonging to \_\_\_\_\_

**WATER TUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel** D. Colville & Sons.

For record \$ Total Heating Surface of Boilers 916 # Is forced draft fitted  No. and Description of Boilers 2 Single Ended Marine Working Pressure 100 Tested by hydraulic pressure to 200 lbs Date of test 12. 12. 13  
 Certificate 12460 Can each boiler be worked separately  Area of fire grate in each boiler oil fuel No. and Description of valves to each boiler 2 Spring loaded Area of each valve 3.14 sq Pressure to which they are adjusted \_\_\_\_\_  
 They fitted with easing gear  In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler   
 Greatest distance between boilers or uptakes and bunkers or woodwork Inside dia. of boilers 7'-6" Length 8'-0"  
 Material of shell plates Steel Thickness 15/32" Range of tensile strength 28/32 tons Are the shell plates welded or flanged No  
 Pitch of riveting: cir. seams S.R. lap long. seams S.R. S.R.S. Diameter of rivet holes in long. seams 25/32" Pitch of rivets 3 7/8"  
 Width of butt straps 8 1/2" Per centages of strength of longitudinal joint rivets 83 Working pressure of shell by plate 78.2 %  
 Size of manhole in shell 16" x 12" Size of compensating ring 5 1/2" x 7/8" No. and Description of Furnaces in each boiler one plain Material steel Outside diameter 36" Length of plain part 5'-0" Thickness of plates 1/2"  
 Description of longitudinal joint welded No. of strengthening rings none Working pressure of furnace by the rules 174 Combustion chamber material steel Thickness: Sides 1/2" Back 15/32" Top 1/2" Bottom 1/2" Pitch of stays to ditto: Sides 7 1/4" x 7" Back 8 1/2" x 7 1/2"  
 Stays are fitted with nuts or riveted heads Nuts Working pressure by rules 112 Material of stays steel Diameter at largest part 1-01" Area supported by each stay 60" Working pressure by rules 134 End plates in steam space: Material steel Thickness 5/8"  
 How are stays secured S.R. Shank Working pressure by rules 109 Material of stays steel Diameter at smallest part 2-66"  
 Area supported by each stay 169" Working pressure by rules 163 Material of Front plates at bottom steel Thickness 5/8" Material of back plate steel Thickness 5/8" Greatest pitch of stays 8 1/2" x 7 1/2" Working pressure of plate by rules 225 Diameter of tubes 3"  
 Material of tube plates steel Thickness: Front 5/8" Back 19/32" Mean pitch of stays 8 1/2" x 8" Pitch across wide spaces 11" Working pressures by rules 115 lbs Girders to Chamber tops: Material steel Depth and thickness of at centre 5 1/2" x 1 1/8" Length as per rule 1-7 1/8" Distance apart 8" Number and pitch of Stays in each 1 @ 7"  
 Working pressure by rules 100 Superheater or Steam chest: how connected to boiler none Can the superheater be shut off and the boiler worked

The foregoing is a correct description,  
A. A. Dalglisch Manufacturer.  
 304 attached

Is the approved plan of boiler forwarded herewith Yes  
 During progress of work in shops: 1913 May 7, July 4, Aug 22, Sept 14, 11, 19, 22  
 During erection on board vessel: Oct 5, 13, 20, 27, Nov 6, 14, 22, Dec 4, 12 Total No. of visits 17

**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c.) The workmanship & materials are good. The Boilers have been built under Special Survey, & will be fitted on and in the Glasgow district

Survey Fee ... £ 3 : 1 : 7 When applied for, \_\_\_\_\_  
 Travelling Expenses (if any) £ : : When received, \_\_\_\_\_  
 MONTHLY ACCOUNT  
A. A. Dalglisch  
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute GLASGOW 16 DEC. 1913  
 Assigned Transmit to London  
 Lloyd's Register Foundation  
 W 479-0164

M/s. <sup>u</sup>Pangan<sup>u</sup>

Donkey Boilers

Boiler No 60278



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